Fibromyalgia pain isn't all in patients' heads

A new brain-scan study confirms scientifically what fibromyalgin intents have been telling a skeptical medical community for years: They're folly in pairs

jutients have been telling a skepical bredient community for years: They're teally in pain. In fact, the study finds, people with fibromyalgia say they feel severe pain and have measurable pain signals in their brains, from a gentle finger squeeze that baren a gentle finger squeeze that baren a gentle finger squeeze's force must be doubled to bruss healthy people to feel the same lavel of pain, and their pain signals whow up in different train areas. A The results, published in the cur-rent issue of *Arthritis & Rheumatism*, the journal of the American College of Rheumatoley (ACR), may offer the proof fibromyalgia's physical roots faat many doublful physicans have gought. It may also open doors for further research on the still-unknown nauses of the disease, which affects more than 2 percent of Americans, haning women. nainly women

Inainly women. Lord a utdrors Richard Gracely, Ph.D. and Dr. Daniel Chuw, who did the study at Georgetown University Atodical Center and the National fastitutes of Health, are now continu-ing the work at the University of Michigan Health System. In an edito-Hai in the same issue, Clauw and U-Mir Areumatologist Dr. Leslie Crofford ptress the importance of fibromyalgin tensorth and care.

Connecting

5 Ontreeting in order the subjective pain sensa-tion with objective views of brain sig-nals, the researchers used a super-last form of MRI brain imaging, called functional MRI or MRI, on 16 fibromyalgin patients and 16 people without the disease. As a result, they kly, the study offers the first objec-tive

mostly during the childbearing years.

tive method for corroborating what fibromyalgia patients report they feel, and what's going on in their brains at the precise moment they feel it. And, it gives researchers a rond map of the areas of the brain that are most - and least - active when patients feel pain. The fNRI technology gave us a unique opportunity to look at the neurobiology underlying tendernoss, which is a hallmark of fabromyalgia, says Clauw. "These results, combined with other work done by our group and others, have convinced us that some pathologic pracess is making these patients more sensitive. For some reason, still unknown, there's a neurobiological amplification of their pain signals."

History

History For decades, patients and physi-cians have built a case that thromyalgia is a specific, diagnosable chronic disease, characterized by ten-derness and stiffness all over the body as well as fatigue, headaches, patrointestinal problems and depres-sion. Many patients with the disease find it interferes with their work, family and personal life. Statistics above that far more women than men are affected, and that it occurs mostly during the childbearing years. The ACR released classification cri-teria for fibromyalgia in 1990, to help doctors diagnose it and rule out other

chronic pain conditions. Clauw and Crofford's editorial looks at the eur-rent state of research, and calls for rheumatologists to take the lead in f fibromyalgia care and science. But many skeptics burve debated the very existence of fibromyalgia as a clearly distinct disorder, asying it seemed to be rooted more in psycho-logical and social factors than in physical, biological causes. Their argument has been bolistered by the failure of research to find a clear cause, an effective treatment, or a non-subjective way of assessing patients.

non-subjective way of assessing patients. While the dehate has raged, neuro-scientists have begun to use brain scan technology to identify the areas of the normal human brain that become most active during pain. A few studies have even assessed the blood flow in those areas in fibromyalign patients during baseline brain scans. The new study is the first to use both high-speed scanning and a painful stimulus.

New study

New study The study, fibromyalgin patients and healty control subjects had their brains scanned for more than 10 min-dites will a small, pistore that being and be and the state of the state of the study of the state of the state were varied over time, using painful set for each patient prior to the scan. Thrities to compare patients and com-pain rating given by patients and the study's design gave two oppor-tions the pressure levels at which the pain rating given by patients and the study and the same, and types of participants gave when the same level of pressure was applied.

IIIS IIIGACUAS The researchers found that it only foreported feelings of pain in the fibromyalgia patients, while the cen-trol subjects tolerated the same pres-sure with little pain. The patients, that same mild pressure also produced mensurable brain responses in arcans that process the sensation of pain," says Claux. But the same kind of brain respons-es weren't seen in control subjects until the pressure on their thumbs was more than doubled. Though brain activity increased in many of the same areas in both patients ind differences to: Market and the subjects, there weren't seen in control subjects until the pressure on their thumbs was more than doubled. Though brain activity increased in many of the same areas in both patients ind differences to: Market and the pressure on the con-trol subjects feeling the area pres-sure had activation in only two areas. When the pressure on the control subject i thumbs was increased, so did their pain rating and the number of pain rating and the number of pain rating and the number of pain the areas were the same are triving the brains. The fibromyalis patients' frains had both some areas that were fourted a feeling the same level of pain. This response suggests that pain is response suggests that pain is near on the controls, and some areas that stayed "quief" in the both some areas that stayed suger's that pain is near on the same level of pain. This response suggests that pain is none brain regions, and a disting the same level of pain. This response in others, Claux.

diministics reserved in part by snys. The study was supported in part by the National Fibronyalgia Research Association, the U.S. Army and the NIH. For more information on fibronyalgia research at UMHS, with www.med.umich.edu/intmed/rheum atology/fmucb.

MEDICAL DATEBOOK

JUNE

JUNKE SHAREAP St. Mary Morry will offer its medically super-vised HMR Weight Management Program this summer. Participants are required to attend a free one-hour orientation session 4-5 p.m. Wednesday, June 26. All sessions are held in Community Outreach Classroom 11 located in the lower level. To pro-register, call (734) 655.1783.

DEPRESSION

DEPRESSION The University of Michigan Depression Center offers a "Family Education Workshop" 6-8 p.m. Monday, June 24, at the East Ann Arbor Health Center, Learn about depressions' risk factors and treatments. Open discussion will be facilitated at the end of the session. \$25 per person; \$30 per family. Percengister by calling (734) 764-0267 or visiting www.med.umich.edu/depression. neuers support

visiting www.med.umich.edu/depression. **GMFF SupPort** Angela Hospice in Livonia offers ongoing grief support, groupe every second and fourth Tuesday of the month. Next meeting: 1 p.m. and 6:30 p.m. Jane 25. Call Ruth Favor, bereavement coordina-tor, at (734) 464-7810.

HEALTH FAIL Heartland Health Care Center-Dorvin will offer a free health fair 2-4 p.m. Wednesday, June 26, at 29270 Morlock (aouth of Eight Mile and west of Middlebelt), Livonia. Attendees can have bloo at 29270 Morlock (south of Eight Mile and west of Middlebelt), Livonia. Attendees can have blood pressure screenings and meet with representa-tives from home health care, rehabilitation, gen-eral medical, and Alzheimer's care. Refresh-ments and door prizes. Call (248) 476-0555. HEDACHES HEADACHES

MEADACHES Join Dr. Robert E. Potter, Jr. for a workshop on stress induced headaches and migraines 7-8:15 p.m. Wednesday, June 26, at the Canton Center Chiropractic Clinic, 6231 N. Canton Center Road, Suite 109, Canton. Call (&34) 455-6767.

itond, Suite 109, Canton. Call (&34) 455-6767. CompLimetrary empoches The National Wellness Foundation will offer a support group meeting the fourth Thursday of each month. Anyone with health goals, questions or concerns is invited. The next meeting is 7 p.m.. Thursday, June 27, at the Dymouth Library, downtown Plymouth. Call (734) 416-2442 or visit www.clc2.com.

JULY

Free mammography guides help women make choices

The second annual Michigan Mam mography Guide, compiled and pub-lished by the American Cancer Soci-ty, Great Lakes Division, and the Autorit Free Press, is available free of parge by calling the American Cancer Society at 1(800)ACS-2346. The guide is the result of a survey of all 314 Michigan mammography lakes Division. The few violations the listen and contains information lesigned to help women make an informaid decision on when and when the findings show that only four

focus our attention instead to the problem of getting more women screened regularly." The survey shows the median cost of a mammogram in Michigan is 3138 with the least expensive at \$332. Forty-two centers charge under \$100 and the typical wait to get an appoint-ment for a routine screening mammo-gram is 11 days. Despite recent challenges to mam-mography, the American Cancer Society and other major health

organizations are in strong agree-ment that the annual screening is a woman's best defense against breast cancer. American Cancer Society breast cancer screening guidelines for all women 40 and older call for an annual screening mammogram, annual clinical breast exam by a health care professional, and monthly breast self-examination. Women 20-39 should have clinical breast exam by a health care professional every by a health care professional every three years and should perform monthly self exams.

JULY FOOT CARE Senior Health Survices of Saint Joseph Mercy Health System will present a Senior Health Day 8:30-11:30 a.m. Tuesday, July 9, at SYM Health Stop, Jocated in the Briarwood Mall just of I-94 at the State Street exit in Ann Arbor. "Personal-izing Foot Care for Agin Feet' will feature padi-atriat Dr. Mark Klein of St. Joseph Mercy Hospi-al. Bone density screening for a \$5 domation began 8:30 a.m. Lecture at 10 a.m. Healthy food samples, gifts and prize drawings. Call (734) 827-3777.





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